

Decking

Decking Sector Product Guide



Resist 150 in Pebble Grey woodgrain

Low maintenance composite
timber decking for domestic and
commercial applications.

...designed for the future

DREAMTM
LIVING
Living with Quality to Trust

Industrial Rail Marine Decking Cladding

What Are Composites?

Composite materials are products made from two or more constituent materials with significantly different physical or chemical properties, that when combined, produce a material with different characteristics to those of the individual components.

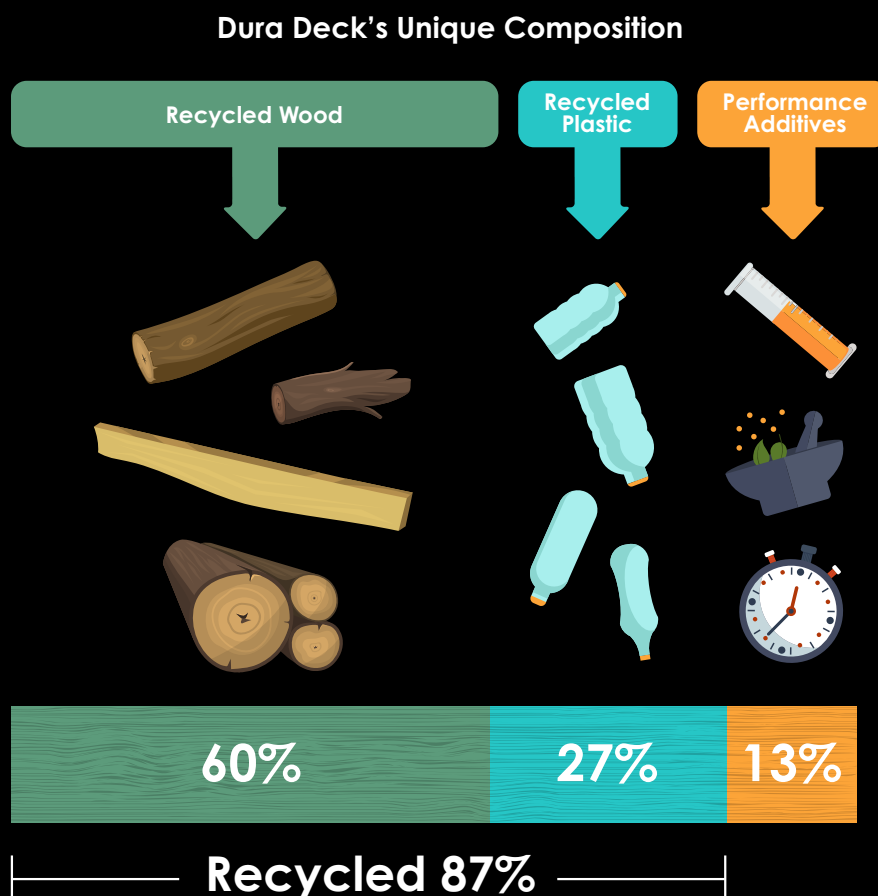
What Are Wood Plastic Composites?

Wood-plastic composites (WPC) are composites made of wood fibre/wood flour and thermoplastic materials.

Why Choose Dream Livin

Dream Deck is manufactured from a unique combination of wood and plastic and our highly developed unique composition combines the traditional appearance of timber with the durability of an engineered composite.

Made from an innovative blend of up to 87% recycled hardwood and plastics, Deck Composite Timber helps to conserve the earth's resources whilst reducing the amount of waste sent to landfill. In fact, Composites was the world's first timber composite supplier to become FSC® 100% certified, further positioning us as a global pioneer in the world of composite timber.



Dream Living Deck Ranges

Dream Deck is available in two ranges **Eco** and **Resist** to suit various budgets and project requirements. Dream Deck has been on the market since 2007 and was the first composite decking brand in the world to offer FSC® certification as standard.

Many suppliers will request that you use a different span to suit commercial or domestic applications, but Dura Deck offers greater simplicity. There is one recommended span for each product in accordance with BS 6399-1: 1996 - no matter what the application and for the avoidance of doubt.

Our narrower boards (**Eco 146, Resist 150**) have a more traditional appearance and closely resemble natural wood planks. However, if your priority is maximising the speed of installation or span capability then our double width board (**Eco 295**) may be more suitable. All Dream Deck composite timber boards are reversible to allow the installer to choose from two attractive finishes.

The following pages will help you select the most suitable Dura Deck range for your project requirements.

Features

- Natural Wood Look and Feel
- Concealed Fixings
- Doesn't Rot, Splinter or Warp
- UV Colour Stable
- Recycled Content
- Anti Slip Surface
- Water Resistant

Benefits

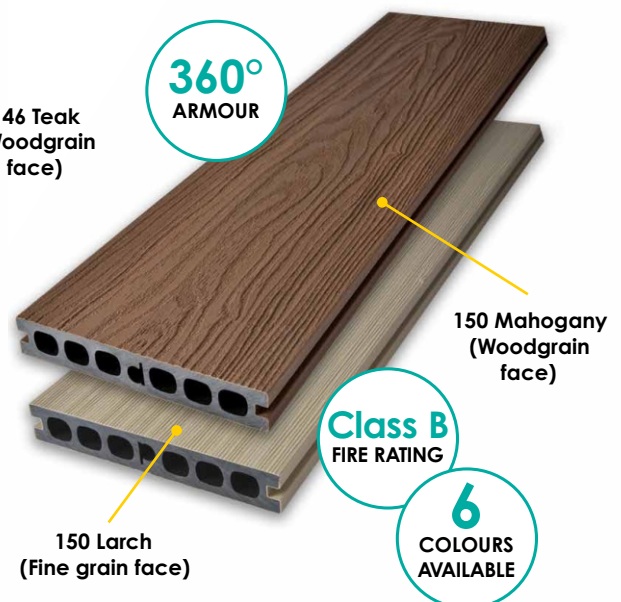
- • Ideal Wood Replacement
- • Barefoot Friendly
- • Minimum 10 Year Warranty
- • Looks Fresh for Years
- • Environmentally Friendly
- • Prevents Slips, Trips and Falls
- • Rain and Swim Area Friendly



Dura Deck **Eco**



Dura Deck **Resist**



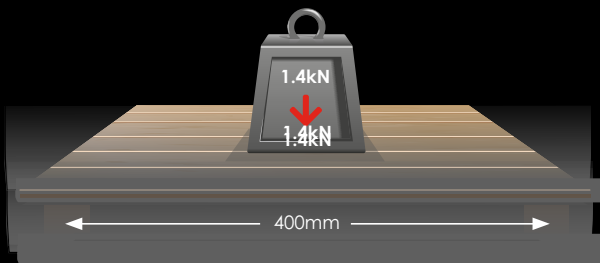


Load Performance

Using state-of-the-art product design, proprietary product formulas and precise manufacturing techniques, Dream has been able to achieve an additional 60% extra strength versus similar designs from competitors. This added strength helps prevent long term failure caused by permanent deflection (otherwise known as 'sag'). Our unique design enables the same span to be used whether you plan to install Dura Deck residentially or commercially.

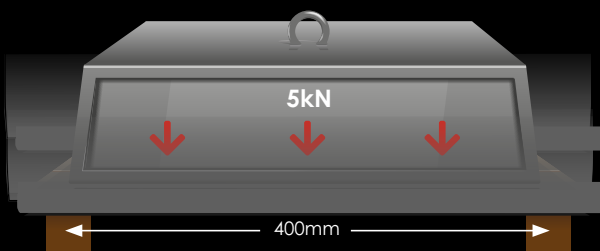
Load Performance Explained

POINT LOAD



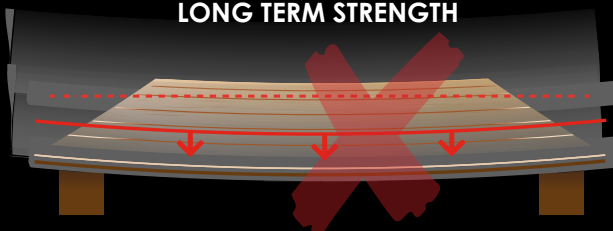
Exceeds 1.4kN load at 0.5% deflection
(2mm @ 400mm span)

UDL (UNIFORMLY DISTRIBUTED LOAD)



Exceeds 5kN load at 0.5% deflection
(2mm @ 400mm span)

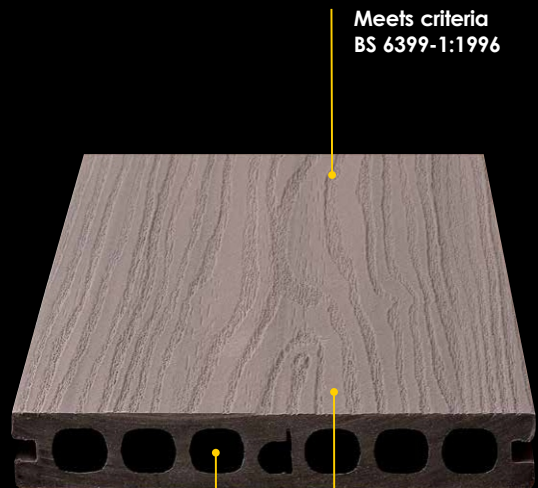
LONG TERM STRENGTH



Resists long term deflection (under self weight)

Our Unique Vortex Void

We take our warranty seriously and as such, our deck boards have been designed with a unique 'Vortex Void' structure to optimise their strength over the warranty period in all conditions, and for all applications.



Meets criteria
BS 6399-1:1996

Dura's unique vortex void for maximum long term strength that prevents deformation, deflection and sag

Unique formula with extremely low water absorption improves long term performance in all weather conditions



Anti-Slip Resistance

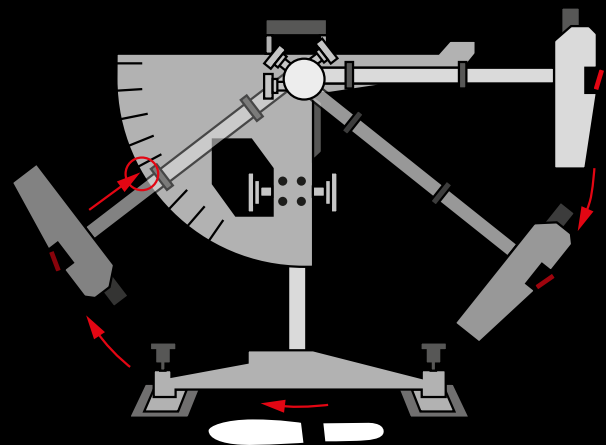
4S Slider Explained

The 4s rubber slider test imitates the heel of a shoe or foot to determine the level of slip resistance. The 4s slider test method is specially designed to replicate everyday footwear across a surface. The four S's stands for:

4S = STANDARD SHOE SOLE SIMULATOR

The 4s slider test should not be confused with the pendulum 5s slider or TRL (Transport Road Laboratory) test, which is designed for testing slip resistance on a roading surface.

The results gained from a 5s slider/TRL test are significantly higher than the 4s slider test. The 4s slider test can be relied upon in a court of law where a personal injury claim may have been made. This test measures the floors slip resistance values against the recommended health and safety minimum value of '36' and proves to insurance companies, slip accident claimants (genuine or fraudulent), and personal injury lawyers, that a safe floor environment has been provided.



Eco 146 Anti-Slip Resistances

		Dura Deck Eco			
Slip Resistance Values - BS 7971		Type 146	Type 146	Type 295	Type 295
Direction	Condition	Grooves	Woodgrain	Large Grooves	Woodgrain
Longitudinal	Dry	● 39	● 44	● 39	● 39
Transverse	Dry	● 63	● 51	● 74	● 52
Diagonal	Dry	● 52	● 46	● 51	● 53
Longitudinal	Wet	● 32	● 32	● 32	● 28
Transverse	Wet	● 45	● 44	● 38	● 39
Diagonal	Wet	● 37	● 38	● 39	● 36

Eco 146
Suits **LIGHT COMMERCIAL** applications

Resist 150 Anti-Slip Resistances

		Dura Deck Resist	
Slip Resistance Values - BS 7971		Type 150	Type 150
Direction	Condition	Woodgrain	Fine Grain
Longitudinal	Dry	● 44	● 46
Transverse	Dry	● 52	● 54
Diagonal	Dry	● 45	● 47
Longitudinal	Wet	● 37	● 36
Transverse	Wet	● 37	● 47
Diagonal	Wet	● 48	● 36

*(4S Rubber Slider)

Pendulum Test Values (PTVs)

- Low Slip Potential (36+ PTV)
- Moderate Slip Potential (25-35 PTV)
- High Slip Potential (0-24 PTV)

Resist 150
Ideal for **COMMERCIAL** applications
Achieves **LOW SLIP** potential in all conditions and directions.



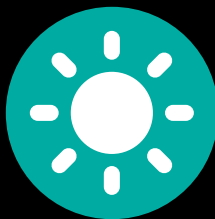
Fire Resistance

Eco 146

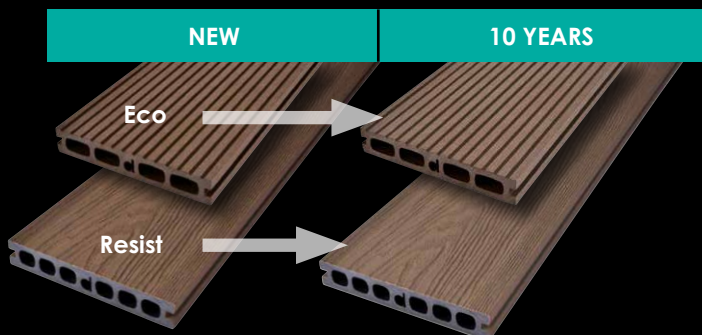
Designed and tested to pass **BS EN 13501 Class Cfl-s1** for ultimate peace of mind. This range exceeds the performance of almost all of its direct competitors.

Resist 150

Engineered to resist the ignition of fire the **Resist** range has been rigorously tested for consumer piece of mind and confidence. The co-extruded 360° outer armour protects the core, increasing its defensive properties against fire. **Resist** achieves **Bfl-s1** according to **BS EN 13501**, giving you confidence this range is the best in class performer.



UV Fade



Eco 146

Latest technology deployed to ensure the colour fade over time is minor, providing a deck that always looks like new.

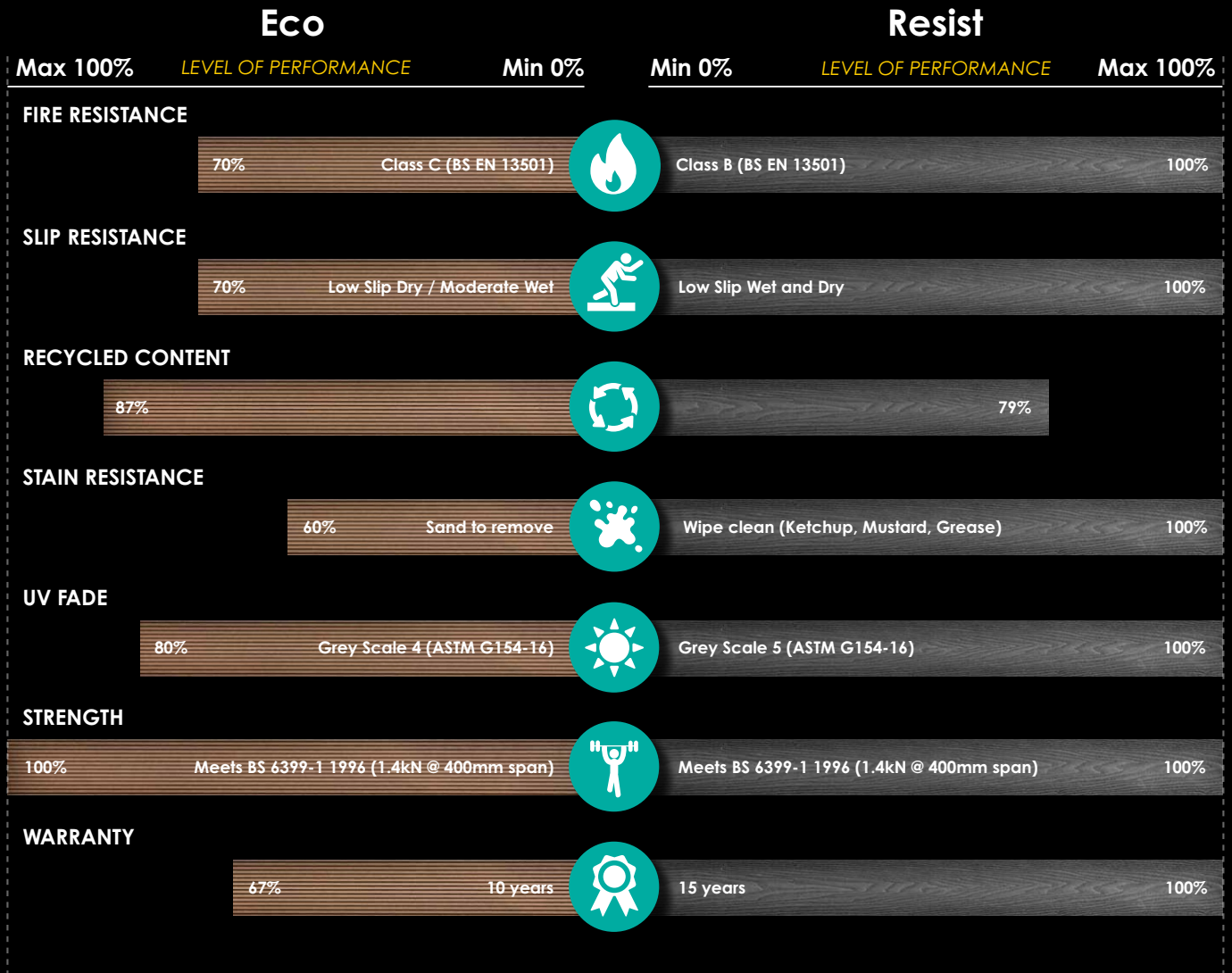
Resist 150

Protected by the outer armour, the **Resist** range is even more colour stable than **Eco** and other co-extruded WPC decking boards on the market.

Choosing The Right

Performance Benefits Selector

Comparison graph to show performance benefits for Dura Deck **Eco** vs. **Resist**.



Eco


Resist


Dream Deck Range

Application Suitability Selector

Comparison graph to show suitable applications for Dura DeckEco vs. Resist.



 Dream Deck Eco

 Dream Deck Resist

Manufacturers Recommended Selling Price



Why Choose Dream Deck ?

Product Comparison Table

	1.4kN at 400mm Span 0.5% Deflection, against BS 6399-1: 1996	Fire Resistance Class C	Water Absorption (less than 0.5%)	Minimal UV Colour Fade (Min. Grey Scale 4)	100% FSC®	Woodgrain Surface
Dura Deck	✓	✓	✓	✓	✓	✓
Previous Dura Deck Range	✗	✗	✓	✗	✓	✗
Other WPC Decking Manufacturers	✗	✗	✗	✗	✓	✓
Soft Wood Decking	✗	✗	N/A	✗	✓	✓
Hard Wood Decking	✗	✓	N/A	✗	✓	✓

Dream Deck Eco Profiles

Product	Board Type	Board Thickness	Board Length	Board Width	Max Span	Weight / Lin m	Weight per length	Boards per Pallet
Eco 146	Hollow	25mm	3660mm	146mm	400mm	3.05Kg	11.16Kg	132 Pcs
Eco 146	Solid	25mm	3660mm	146mm	400mm	4.81Kg	17.60Kg	90 Pcs
Eco 295	Hollow	23mm	3660mm	295mm	550mm	6.56Kg	24.01Kg	66 Pcs
Eco 295	Solid	23mm	3660mm	295mm	550mm	8.97Kg	32.83Kg	42 Pcs

Material Specifications

Test item	Test parameter	Dura Deck Eco Test Results
Linear Thermal Expansion (Lengthwise)	Test method: ISO 11359-2:1999 Method A Rate of temperature: 3 °C/min	44.8×10 ⁻⁶ K ⁻¹
Water Absorption	Test method: EN 317:1993	0.50%
Density	Test method: ASTM D792-13 Method B	1.317 g/cm ³
UV Light Ageing test	Test method: ASTM G154-ASTM D2244-16 UV Exposure cycle: Exposure duration: 1000h	Grey Scale 4
Tensile Strength	Test method: ASTM D638-14	23.2 Mpa
Flexural Strength	Test method: reference to ASTM D7032-17 Section 4 and ASTM D4761-13 Section 8	33.7 Mpa
Low Temperature Def (-29 ±2 °C)	Test method: ASTM D7032-17 Section 4 and ASTM D4761-13 Section 8	45.4 Mpa
High Temperature Def (52 ±2 °C)	Test method: ASTM D7032-17 Section 4 and ASTM D4761-13 Section 8	27.4 Mpa
Moisture Effect (85%RH)	Test method: ASTM D7032-17 Section 4 and ASTM D4761-13 Section 8	34.4 Mpa
Freeze-Thaw Effect	Test method: ASTM D7032-17 Section 4 and ASTM D4761-13 Section 8 Freeze-thaw exposure cycle : Submerge underwater for 24h→ 23±2°C, 24h→ Step ~ as one cycle, total three cycles	Flexural Strength after freeze-thaw resistance: 33.7 Mpa
Flexural Stiffness	Test method: reference to ASTM D7032-17 Section 4 and ASTM D4761-13 Section 8	Flexural Stiffness: 4637 Mpa
Resistance to Indentation	Test method: EN 15534-1:2014 Section 7.5	Brinell hardness: 104 Mpa
Charpy Impact Strength	Test method: EN ISO 179-1:2010	4.4 kJ/m ²
Flammability Resistance	Test method: EN13501-1 (EN ISO 9239-1) and (EN ISO 11925-2)	Cl-S1 - As Standard

While the above test data is considered to be true and correct at the date of publication, changes to the product composition after the time of publication may impact on the accuracy of the data. Please consult your Dura Composites representative for copies of the most up to date test data available. Please note that it is the responsibility of the purchaser to make their own decisions about the accuracy, recency and correctness of the information provided and the product's suitability for their specific application.

Anti-Slip Resistances

		Dura Deck Eco			
Slip Resistance Values - BS7975		Type 146	Type 146	Type 295	Type 295
Direction	Condition	Grooves	Woodgrain	Large Grooves	Woodgrain
Longitudinal	Dry	39	44	39	39
Transverse	Dry	63	51	74	52
Diagonal	Dry	52	46	51	53
Longitudinal	Wet	32	32	32	28
Transverse	Wet	45	44	38	39
Diagonal	Wet	37	38	39	36

*(4S Rubber Slider)

Pendulum Test Values (PTVs)

- Low Slip Potential (36+ PTV)
- Moderate Slip Potential (25-35 PTV)
- High Slip Potential (0-24 PTV)

6 Reasons For Choosing Dream Deck



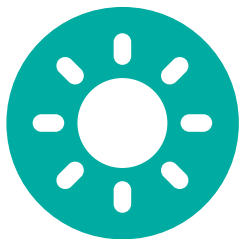
1. High Strength

Drawing on more than 20 years' experience in composite flooring, Dura Deck Eco has been designed to withstand high loads throughout its lifecycle. In a first for decking products, the product exceeds 1.4kN at just 0.5% deflection as per BS 6399-1:1996. Due to its strength, the same span is recommended regardless of domestic or commercial use.



2. Low Water Absorption

Developed to achieve low water absorption of less than 0.5%, Dura Deck Eco will perform despite rainy weather throughout its 10-year warranty period.



3. Colour Retention

Latest technology deployed to ensure the colour fade over time is very minor, providing a deck that always looks like new.



4. FSC® Certified

Dura Deck was the first brand to enjoy FSC certification, and despite being the entry level product, enjoys FSC® as standard along with 87% recycled content.



5. Woodgrain Surface

The surface of Dura Deck Eco has been specially developed to offer a natural woodgrain look, akin to wooden decking. Latest technology including a deep embossing process means that unlike other brands, the beautiful appearance will last and last, certified through abrasion testing.



6. Fire Rated

Designed and tested to pass BSEN13501 Class Cl-s1 for ultimate peace of mind.

Our Essential Guide to Getting the Most From Your Dream Deck

Whether you're planning a commercial or residential decking project, Dream Composites has a durable, simple to install, cost-effective and environmentally friendly solution to help maximise the use of outdoor space in all seasons.

Our high-performance composite decks combine fade-resistance with outstanding durability and mean you can spend less time maintaining your deck and more time enjoying it. To ensure you get the best results, we recommend working with a professional contractor with previous decking installation experience. Please ensure that the guidance provided here and in our supporting Technical Install Manual are strictly adhered to as improper installation (including the use of non-approved trims, fixings and accessories) will invalidate your product warranty.



Please Note: All colour swatches and textures shown in this document are intended as a representation only and should not be considered as an exact colour match. We would always recommend ordering free colour samples so you can assess colour suitability before placing your order. Dura Composites' manufacturing process results in a high level of colour consistency although some variation in colour may be apparent across boards from different production batches. Whilst Dura Deck Eco and Resist are extremely colour stable, there will likely be some initial colour lightening as the product weathers, which typically occurs in the first 3 months. The rate of weathering will vary according to the amount of UV and the surroundings.

Available now from

Sole UK Timber Importer

Grangemouth (Scotland)

Sales Centre

Tel: 01324 666000

Fax: 01324 665464

Trafford Park (Northern)

Sales Centre

Tel: 0161 848 2900

Fax: 0161 848 2901

Parkend (South West & Wales)

Sales Centre

Tel: 01594 566000

Fax: 01594 566001

Purfleet (London & South East)

Sales Centre

Tel: 01708 683333

Fax: 01708 683334

info@internationaltimber.com



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